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111: 12542b Chitosan sponges as surgical dressings. Motozugi, Kenzo; Yamaguchi, Yasuhiko; Kibune, Koji (Unitika Ltd.) Jpn. Kokai Tokkyo Koho JP 63 90,507 [88 90,507] (Cl. C08B37/08), 21 Apr 1988, Appl. 86/236,622, 03 Oct 1986; 5 pp. Chitosan sponges are prepd. for use as a wound dressing and a topical hemostatic. Chitosan powders (10g) were dispersed in 970 mL distd. water by adding 20 mL of glacial AcOH, and the highly viscous soln. was filtered through 1480 mesh screen. The obtained transparent chitosan soln. (100g) was treated with 0.5 g dodecyl sulfate and methanol-NaOH soln. to coagulate the chitosan. The chitosan was washed with MeOH, anhyd. AcOH, and distd. water and freeze-dried. The obtained sponge had a porosity of 96% and a wet strength of 2.8g/mm². The sponge was applied to a freshly excised wound on rabbit's back and covered with cotton gauze; it still kept porosity after 7 days of application and allowed the exudate to penetrate and being absorbed by the gauze.

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